

Declaration and Power of Attorney For Patent Application

English Language Declaration

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

MONOCLONAL ANTIBODY RECOGNIZING PHOSPHATIDYLINOSITOL-3,4,5-Triphosphate

the specification of which

(check one)

is attached hereto.

was filed on February 24, 1999 as United States Application No. or PCT International Application Number 09/257,069
and was amended on _____

(if applicable)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, Section 119(a)-(d) or Section 365(b) of any foreign application(s) for patent or inventor's certificate, or Section 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate or PCT International application having a filing date before that of the application on which priority is claimed.

| Prior Foreign Application(s) | Priority | Not Claimed |
|------------------------------|--------------------|--|
| 10-252921 (Number) | Japan (Country) | 7/9/1998 (Day/Month/Year Filed) <input type="checkbox"/> |
| _____ (Number) | _____ (Country) | _____ (Day/Month/Year Filed) <input type="checkbox"/> |
| _____ (Number) | _____ (Country) | _____ (Day/Month/Year Filed) <input type="checkbox"/> |

I hereby claim the benefit under 35 U.S.C. Section 119(e) of any United States provisional application(s) listed below:

| | |
|--------------------------|---------------|
| (Application Serial No.) | (Filing Date) |
| (Application Serial No.) | (Filing Date) |
| (Application Serial No.) | (Filing Date) |

I hereby claim the benefit under 35 U. S. C. Section 120 of any United States application(s), or Section 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. Section 112, I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, C. F. R., Section 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application:

| (Application Serial No.) | (Filing Date) | (Status) (patented, pending, abandoned) |
|--------------------------|---------------|--|
| (Application Serial No.) | (Filing Date) | (Status) (patented, pending, abandoned) |
| (Application Serial No.) | (Filing Date) | (Status) (patented, pending, abandoned) |

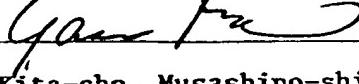
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

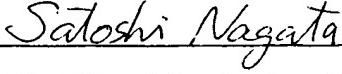
POWER OF ATTORNEY. As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (list name and registration number)

Peter F. Corless (Reg. 33860)
David G. Conlin (Reg. 27026)
George W. Neuner (Reg. 26964)
Linda M. Buckley (Reg. 29822)
Robert L. Buchanan (Reg. 40927)
Christine C. O'Day (Reg. 38256)

Send Correspondence to: Peter F. Corless, Esq.
Dike, Bronstein, Roberts & Cushman, LLP
130 Water Street
Boston, MA 02109

Direct Telephone Calls to: (name and telephone number)
Peter F. Corless (617)523-3400

| | |
|---|--------|
| Full name of sole or first inventor Yasuhsisa FUKUI | Date |
| Sole or first inventor's signature  | 3/5/99 |
| Residence 5-7-6 Kichijouji Kita-cho, Musashino-shi, Tokyo 180-0001 JAPAN | |
| Citizenship Japan | |
| Post Office Address same as residence | |
| | |

| | |
|--|--------|
| Full name of second inventor, if any Satoshi NAGATA | Date |
| Second inventor's signature  | 3/8/99 |
| Residence 3-28-24-503 Takaido Higashi, Suginami-ku, Tokyo 168-0072 JAPAN | |
| Citizenship Japan | |
| Post Office Address same as residence | |
| | |

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|--|----------------|
| Full name of third inventor, if any Ryuichi SHIRAI | |
| Third inventor's signature <i>Ryuichi Shirai</i> | Date 3/8/99 |
| Residence 13-2-103 Shita-machi, Isogo-ku, Yokohama-shi, Kanagawa 235-0004 Japan | |
| Citizenship Japan | |
| Post Office Address same as residence | |
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|--------------------------------------|------|
| Full name of fourth inventor, if any | |
| Fourth inventor's signature | Date |
| Residence | |
| Citizenship | |
| Post Office Address | |
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|-------------------------------------|------|
| Full name of fifth inventor, if any | |
| Fifth inventor's signature | Date |
| Residence | |
| Citizenship | |
| Post Office Address | |
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|---------------------------------------|------|
| - Full name of sixth inventor, if any | |
| Sixth inventor's signature | Date |
| Residence | |
| Citizenship | |
| Post Office Address | |
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| | |

ASSIGNMENT

WHEREAS, I, Yasuhisa FUKUI, inventor residing at 5-7-6 Kichijouji Kita-cho, Musashino-shi Tokyo 180-0001 JAPAN; and I, Satoshi NAGATA, inventor residing at 3-28-24-503 Takaido Higashi, Suginami-ku, Tokyo 168-0072 Japan, and I, Ryuichi SHIRAI, inventor residing at 13-2-103 Shita-machi, Isogo-ku, Yokohama-shi Kanagawa 235-0004 Japan (hereinafter referred to as "Assignors"), have invented certain new and useful improvements in "Monoclonal Antibody Recognizing Phosphatidylinositol-3,4,5-Triphosphate", for which an application for United States Letters Patent with the same title shall be filed with the United States Patent and Trademark Office, under application number 09/257,069 and a filing date of February 24, 1999, claiming priority from Japanese application 10-252921 filed September 7, 1998, and

WHEREAS, Medical & Biological Laboratories Co., Ltd., a Japanese Corporation, located at Sumitomo-Shoji Marunouchi Bldg., 5-10, Marunouchi 3-chome, Naka-ku, Nagoya-shi, AICHI 460 Japan, and Yasuhisa FUKUI, residing at the above-listed address, (hereinafter referred to as the "Assignees"), are desirous of acquiring the entire right, title and interest in and to the same invention, and in and to the said application, and any Letters Patent that may issue thereon;

NOW, THEREFORE, TO ALL WHOME IT MAY CONCERN, be it known that for and in consideration of One Dollar (\$1.00), and other valuable and legally sufficient consideration, the receipt of which is hereby acknowledged, the Assignors have sold, assigned, and transferred, and does hereby sell, assign and transfer to the Assignees, its successors and assigns, their entire right, title and interest for the United States in and to the said invention and in and to the said application and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, in whole or in part, re-examinations, and extensions thereof, and all applications claiming priority therefrom; and the Assignors hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom, insofar as their interest is concerned, to the Assignees; to have and to hold for the sole and exclusive use and benefit of the Assignees, its successors and assigns, to the full end of the term or terms for which any and all of said Letters Patent for said invention may issue, to the same extent as the Assignors would hold and enjoy if this Assignment had not been made.

The Assignors also have sold, assigned, and transferred, and do hereby sell, assign and transfer to the Assignees, its successors and assigns, their entire right, title and interest in and to the invention disclosed in said application, in all countries of the world foreign to the United States, including the right to file applications and obtain patents for said invention in its own name in said countries and including all rights of priority in said countries under the terms of any applicable international convention; to have and to hold for the sole and exclusive use and benefit of the Assignees, its successors and assigns, to the full end of the term or terms for which any and all of said Letters Patent for said invention may issue, to the same extent as the Assignors would hold and enjoy if this Assignment had not been made.

The Assignors further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights, and also agree, at the request of the Assignees, to testify in any legal proceedings, sign all lawful papers, make all lawful oaths, and generally do everything possible to aid said Assignees, its successors and assigns, to obtain, maintain and enforce patent protection for said invention in all countries.

The Assignors also hereby grant the law firm of Dike, Bronstein, Roberts & Cushman LLP the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this documents.

IN WITNESS WHEREOF, the Assignors have caused this Assignment to be executed.

Dated this 5 day of March, 1999.

Yasuhisa Fukui
Yasuhisa FUKUI

Dated this 8 day of March, 1999.

Satoshi Nagata
Satoshi NAGATA

Dated this 8 day of March, 1999.

Ryuichi Shirai
Ryuichi SHIRAI

Witness: Emi Nakao
Print or type name:

Witness: Yumiko Kido
Print or type name:



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

JULY 29, 1999

PTAS

DIKE, BRONSTEIN, ROBERTS & CUSHMAN
PETER F. CORLESS
130 WATER STREET
BOSTON, MA 02109



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UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 05/20/1999

REEL/FRAME: 009979/0636
NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
FUKUI, YASUHISA

DOC DATE: 03/08/1999

ASSIGNOR:
NAGATA, SATOSHI

DOC DATE: 03/08/1999

ASSIGNOR:
SHIRAI, RYUICHI

DOC DATE: 03/08/1999

ASSIGNEE:
MEDICAL & BIOLOGICAL LABORATORIES
CO., LTD.
5-10, MARUNOUCHI 3-CHOME, NAKA-KU
NAGOYASHI
SUMITOMO-SHOJI MARUNOUCHI BLDG.
AICHI, JAPAN 460

009979/0636 PAGE 2

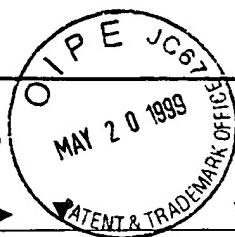
ASSIGNEE:

YASUHISA FUKUI
5-7-6 KICHIJOUJI KITA-CHO
MUSASCHINO-SHI
TOKYO, JAPAN 180-0001

SERIAL NUMBER: 09257069
PATENT NUMBER:

FILING DATE: 02/24/1999
ISSUE DATE:

SHARON LATIMER, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS



RECORDATION FORM COVER SHEET

Docket No.: 48977

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

PATENTS ONLY

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PATENT & TRADEMARK OFFICE

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Yasuhisa FUKUI
Satoshi NAGATA
Ryuichi SHIRAI

5.20.99

2. Name and address of receiving party(ies):

Name: Medical & Biological Laboratories Co., Ltd.
Address: Sumitomo-Shoji Marunouchi Bldg.

5-10, Marunouchi 3-chome, Naka-ku

Nagoyashi

Additional names(s) of conveying party(ies)

 Yes No

3. Nature of conveyance:

- Assignment Merger
 Security Agreement Change of Name
 Other _____

Execution Date: March 8, 1999

4. Application number(s) or registration numbers(s):

If this document is being filed together with a new application, the execution date of the application is: _____

Patent Application No. Filing date

09/257,069 February 24, 1999

B. Patent No.(s)

06-01-1999101051088 Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Peter F. CorlessRegistration No. 33,860Address: Dike, Bronstein, Roberts & Cushman130 Water StreetCity: Boston State/Prov.: MACountry: U.S.A. ZIP: 021096. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41):\$ 40.00 Enclosed - Any excess or insufficiency should be credited or debited to deposit account Authorized to be charged to deposit account

8. Deposit account number:

04-1105

06/01/1999 MTHAI1 0000003 09257069

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01 FC:581 40.00 0P

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Peter F. Corless

Name of Person Signing

Signature

5/17/99

Date

PATENTS ONLY

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| | | | |
|---|--|--|--|
| 1. Name of conveying party(ies): Yasuhisa FUKUI Satoshi NAGATA RYUICHI SHIRAI | | 2. Name and address of receiving party(ies): Name: <u>Yasuhisa FUKUI</u> Address: <u>5-7-6 Kichijouji Kita-cho</u> <u>Musashino-shi</u> | |
| Additional names(s) of conveying party(ies) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | | |
| 3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____ | | City: <u>Tokyo</u> State/Prov.: _____ Country: <u>JAPAN</u> ZIP: <u>180-0001</u> | |
| Execution Date: <u>March 8, 1999</u> | | Additional name(s) & address(es) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | |
| 4. Application number(s) or registration numbers(s): If this document is being filed together with a new application, the execution date of the application is: _____ | | | |
| Patent Application No. <u>09/257,069</u> | | Filing date <u>February 24, 1999</u> | |
| | | B. Patent No.(s) | |
| | | Additional numbers <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | |
| 5. Name and address of party to whom correspondence concerning document should be mailed: | | 6. Total number of applications and patents involved: <u>1</u> | |
| Name: <u>Peter F. Corless</u> | | 7. Total fee (37 CFR 3.41): \$ <u>40.00</u> | |
| Registration No. <u>33,860</u> | | <input checked="" type="checkbox"/> Enclosed - Any excess or insufficiency should be credited or debited to deposit account | |
| Address: <u>Dike, Bronstein, Roberts & Cushman</u> <u>130 Water Street</u> <u>Boston, MA 02109</u> | | <input type="checkbox"/> Authorized to be charged to deposit account | |
| City: <u>Boston</u> State/Prov.: <u>MA</u> | | 8. Deposit account number: <u>04-1105</u> | |
| Country: <u>U.S.A.</u> ZIP: <u>02109</u> | | | |

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Peter F. Corless

Name of Person Signing

Signature

5/17/99

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